Profectis
Technischer Kundendienst
QUELLE.

Serviceunterlage

Produkt-Nr.:
769.966-3

Typ/Privileg-Nr.:
VTC-CD4007

Minianlage

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UTS-Nr.:          999          QUELLE
Best.Nr.:         7699663/01
Ger.Bez.:         UNIVERSUM MINIANLAGE

GKz:                 G  GERAET
WGT:               650  MICRO-/MINI-ANLAGEN
KD-Sektor:           R  RUNDFUNK
BaumNr.:            00  KEIN DIAGNOSEBAUM VORHANDEN
Klassierung:       STK  STEREOKOMBINATION
IFW-FehlerGru.:    205  RDF.,VERST.,TB.,PHONO,CD,CB
Type/Privileg/Universum.Nr VTC-CD4007
Beschreibung
VK-Preis: 399.00

Serviceart:              01  PROFECTIS
Garantie fuer Kunden     12 Monate
Sondervereinbarungen:     0  SIEHE SERVICEART

Garantiereparatur     0004063  PROFECTIS GMBH
Sondervereinbarungen:       0  SIEHE SERVICEART

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Katalog                                        Seite
  Erst  005 SONDERKATALOGE H/W 2000             0000
  Letzt 005 SONDERKATALOGE H/W 2000             0000

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Geraete Info:

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Technische Daten:

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Fehler:

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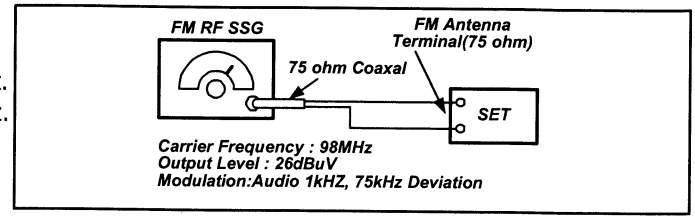
Nachdruck nicht gestattet
Änderungen vorbehalten

Adjustments

◆ TUNER SECTION

TEST EQUIPMENT

1. Signal Generator with a frequency range of FM broadcast.
2. Oscilloscope with a side amplifier of approximately 100 KHz.
3. FM 75/50Ω dummy antenna.
4. VTVM



FM ALIGNMENT

1. Turn on the FM signal generator and the VTVM allowing a 15 minutes warm-up period.
2. Connect the VTVM across the headphone jack or speaker terminal.
3. Set signal generator frequency as listed in ALIGNMENT CHART and maintain a sufficient output level to provide an indication on VTVM.

NOTE

1. Use a screwdriver with plastic or ceramic grip for all adjustments.
2. Standard test frequency 1 KHz and deviation 75 KHz for FM.

FM RF, IF ALIGNMENT CHART

Step	Item	Input Circuit Setup	Output Circuit Setup	Tuner Setting	Adjust Point	Adjustment
1	FM IF Adjustment	Connect stereo signal generator to FM ANT terminal(J001)	Connect DC voltmeter to edge R201	FM 98MHz 75KHz Dev. 26dB μ	L203	Adjust for DC 0V±0.1V
2.	Auto Stop Sensitivity	Connect stereo signal generator to FM ANT terminal(J001)	Connect DC voltmeter to edge of RV201	FM 98MHz 75KHz Dev. 26dB μ	RV201	Adjust for DC 1.17V±0.02V Confirm stereo indicator is lighted and L/R channel is separated.

Unless other specified set being switched FM mode, adjust generator's frequency to center of the FM band where no FM broadcast exists
Otherwise adjustment of FM usable sensitivity, frequency range for FM band are not needed, but confirm these data are satisfied with specification.

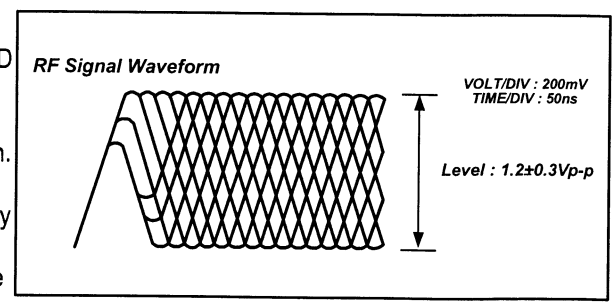
CAUTION : When realizing the FM receiving frequency the highest end of the frequency range should not be more than 108 MHz and the lowest end of the frequency range should not be less then 87.5 MHz, in order to comply with FTZ regulation in West Germany.

◆ CD SECTION

Note: 1. Use the oscilloscope with more than 10MΩ impedance.
2. Clean an object lens by an applicator with natural detergent when the signal level is low than specified value with the following checks.

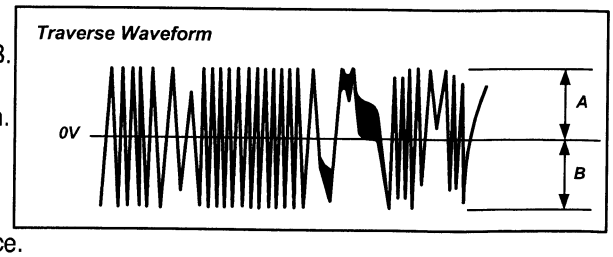
RF LEVEL CHECK

1. Connect oscilloscope to test point TP502 and IC502 Pin66 on CD PCB.
2. Press power switch on.
3. Put test disc(TCD-781) in and press play button then pause button.
4. Confirm that oscilloscope waveform is clear.
   Clear RF signal waveform means that the shape""can be clearly distinguished at the center of waveform.
5. Adjust RV501 to get a clear waveform and maximum amplitude



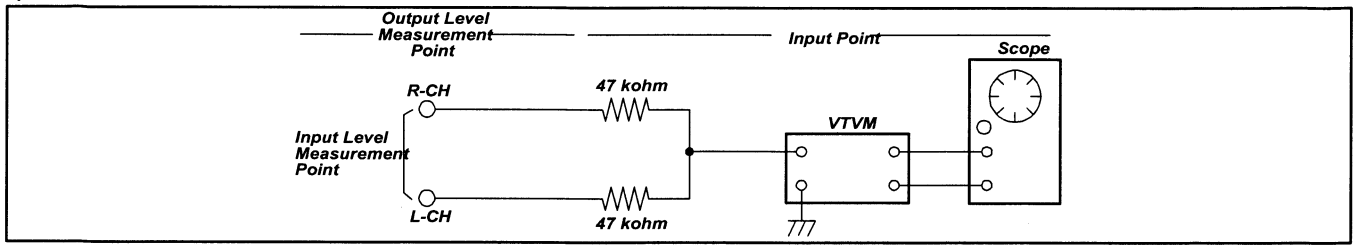
E-F BALANCE ADJUSTMENT

1. Connect oscilloscope to test point TP502 and TP503 on CD PCB.
2. Press power switch on.
3. Put test disc(TCD-781) in and press play button then pause button.
4. Pressing Fast Forward button, adjust RV502 to get that the oscilloscope waveform is symmetrical on the bottom in relation to 0V, and check this level.



* Design and specifications may be subject to change without notice.

◆TAPE SECTION



Test Tape be used

Tape	Contents	Use
MTT-111N	3 KHz	Tape Speed Adjustment
MTT-114N	10 KHz	Head Azimuth Adjustment
MTT-5511	Blank	Record Frequency Property

◆ *HEAD ADJUSTMENT (AZIMUTH)*

1. 10KHz test tape(example: MTT-114N) must be used for this adjustment.
2. Connect to VTVM or oscilloscope to the headphone jack or speaker terminal.
3. Press the play button.
4. Adjust the azimuth by using a screw driver to maintain the max. L&R output voltage.
5. Adjust tape A(1), tape B(2) respectively, Please secure the azimuth position by using locking paint.

◆ *RECORDING BIAS OSCILLATOR FREQUENCY ADJUSTMENT*

1. Connect the frequency counter to TP603, GND.
2. Press the REC button.
3. Adjust L603 to obtain 80 KHz±100Hz

TAPE ALIGNMENT CHART

Step	Item		Reference Value	Test Tape	Adjust Point	Test Point	Note	FIG.
1	Tape Speed Adjustment	Normal	3,015~3,025Hz	MTT-111N	RV601	Line Out L/R Channel	Confirm Wow & Flutter is within 0.35%	FIG.1
		Normal	3,000~3,010Hz	MTT-111N	RV601	Line Out L/R Channel	Confirm Tape Speed of end position after adjustment at tape start position	FIG.1
		High	5,820~6,180Hz	MTT-111N	------	Shorted TP601, TP602	Confirm High speed after normal speed adjustment	FIG.1
2	Azimuth Adjustment		Maximum Level Phase:Within90°	MTT-114N	Head Screw	Line Out L/R Channel		FIG.2,3,4
3	Recording Bias Oscillator Frequency Adjustment		80 KHz±0.5	MTT-5511	L603	TP603, GND	Adjust with frequency counter connected.	FIG.1

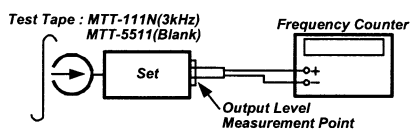


FIG. 1 : Tape Speed & Record Bias Oscillator Frequency Adjust Circuit

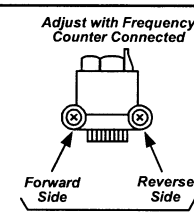


FIG. 2 : Tape Azimuth Adjust Location (Record/Playback Head)

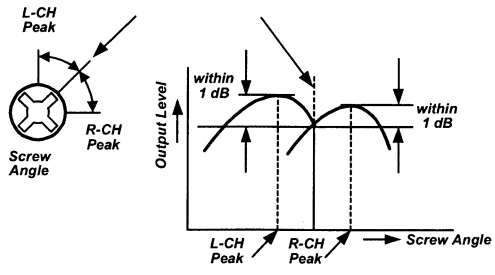


FIG. 3 : Tape Azimuth Adjust Head Screw & Waveform

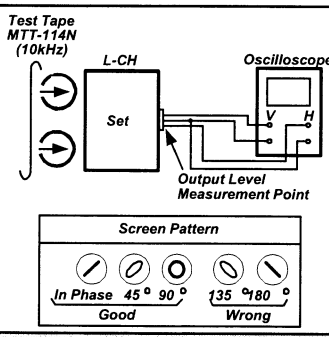
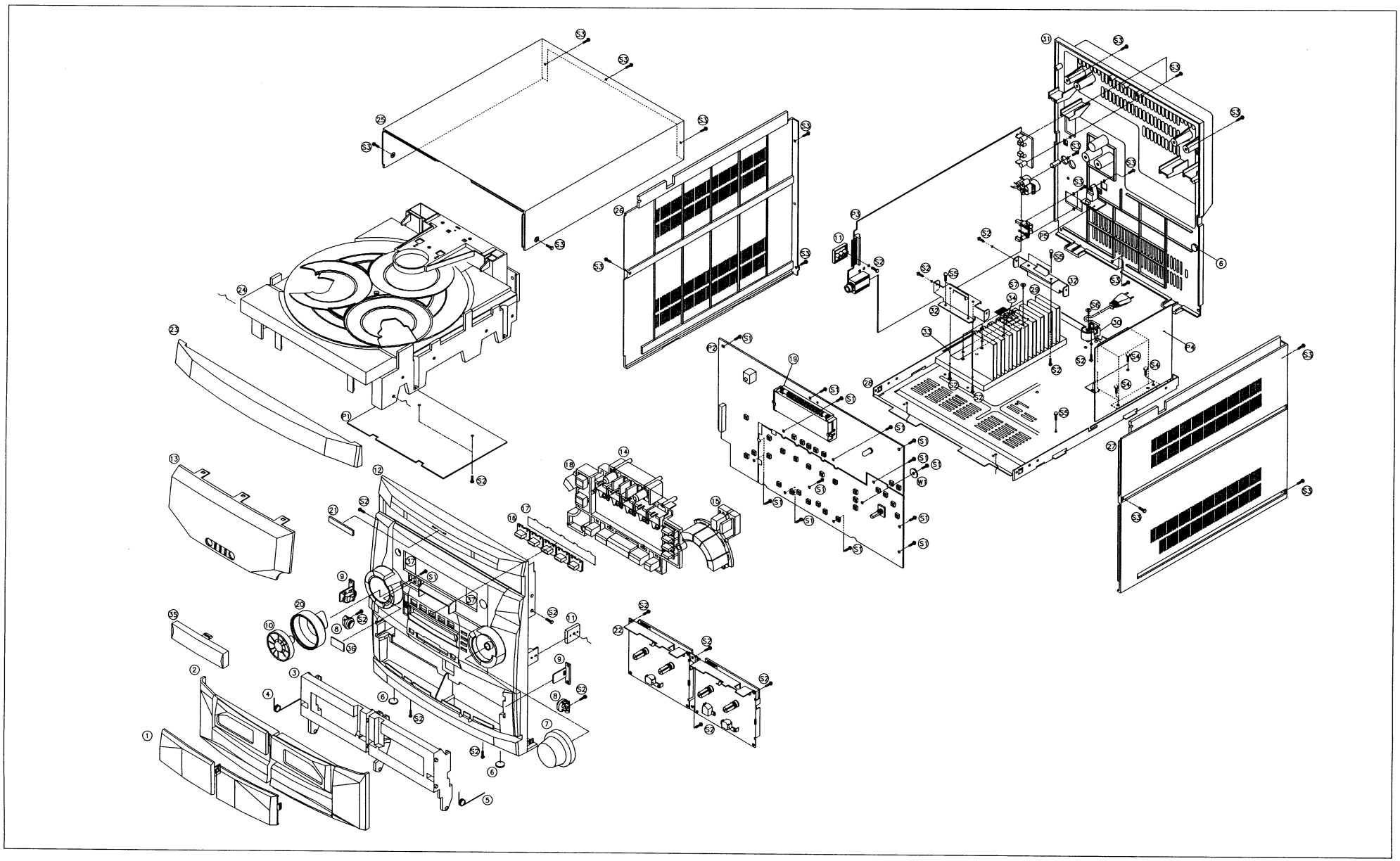


FIG. 4 : Tape Azimuth Adjust Circuit & Waveform

Exploded View and Mechanical Parts List

Model No:AMI-829L/R



Exploded View and Mechanical Parts List

Model No:AMI-829L/R

NO	PARTS NAME	CODE NO.	DESCRIPTIONS	Q'TY	REMARKS
1	WINDOW DOOR A/B	9CD16166A0 9CD16166B0	ACRYL	1 1	
2	DOOR COVER A/B	9CD18115A0 9CD18115B0	MIPS	1 1	
3	DOOR FRAME A/B	9CD1809400 9CD1809500	MIPS	1 1	
4	SPRING DOOR EJECT L	9CD30080L0	STS	1	
5	SPRING DOOR EJECT R	9CD30080R0	STS	1	
6	CUSHION FOOT	9CD4207700	URETHAN FOAM RUBBER	3	
7	KNOB VOLUME	9CD1337000	MIPS	1	
8	DAMPER BASE "B" DAMPER GEAR "B"	9CD2603300 9CD2603290	ABS ACETAL	2 2	
9	LOCKER BASE LOCKER CAM LOCKER SPRING	9CD0B01400 9CD0B01500 9CD0B01600	ABS ACETAL PW-1	2 2 2	
10	KNOB JOG DIAL	9CD1336800	MIPS	1	
11	BRKT SIDE	9CD2412900	ABS	2	
12	PANEL FRONT	9CD0308000	MIPS	1	
13	WINDOW FLT	9CD1616700	ACRYL	1	
14	KNOB CONTROL "A"	9CD13399A0	MIPS	1	
15	KNOB CONTROL "B"	9CD13399B0	MIPS	1	
16	KNOB FUNCTION	9CD1340000	ACRYL	1	
17	PLATE FILTER	9CD0911200	LEXAN (T=0.125)	1	
18	KNOB CONTROL "C"	9CD13399C0	MIPS	1	
19	GUIDE FLT	9CD2506300	ABS	1	
20	RING REFLECTOR	9CD3103700	ACRYL	1	
21	BADGE BRAND		ABS,STAMPING	1	
22	CASS DECK MECHA	9CD6007800	S/S ADR 243AMW	1	AUTO REVERSE
23	DOOR CD	9CD1811400	MIPS	1	
24	CD DECK MECHA	9CD6007100 9CD6006900	CMS FR3 B TYPE DCC-01B	1	
25	COVER TOP	9CD0409600 9CD0409100	MIPS	1	W/O HOLE WITH HOLE
26	COVER SIDE "L"	9CD0409200	MIPS	1	
27	COVER SIDE "R"	9CD0409300	MIPS	1	
28	CHASSIS BOTTOM	9CD0607100	SECC T1.0	1	
29	HEAT SINK N50	9CD4405800	AL 7.0T	1	AMI-829L(50W)
30	HOLDER AC CORD	9CD2303300	ABS	1	

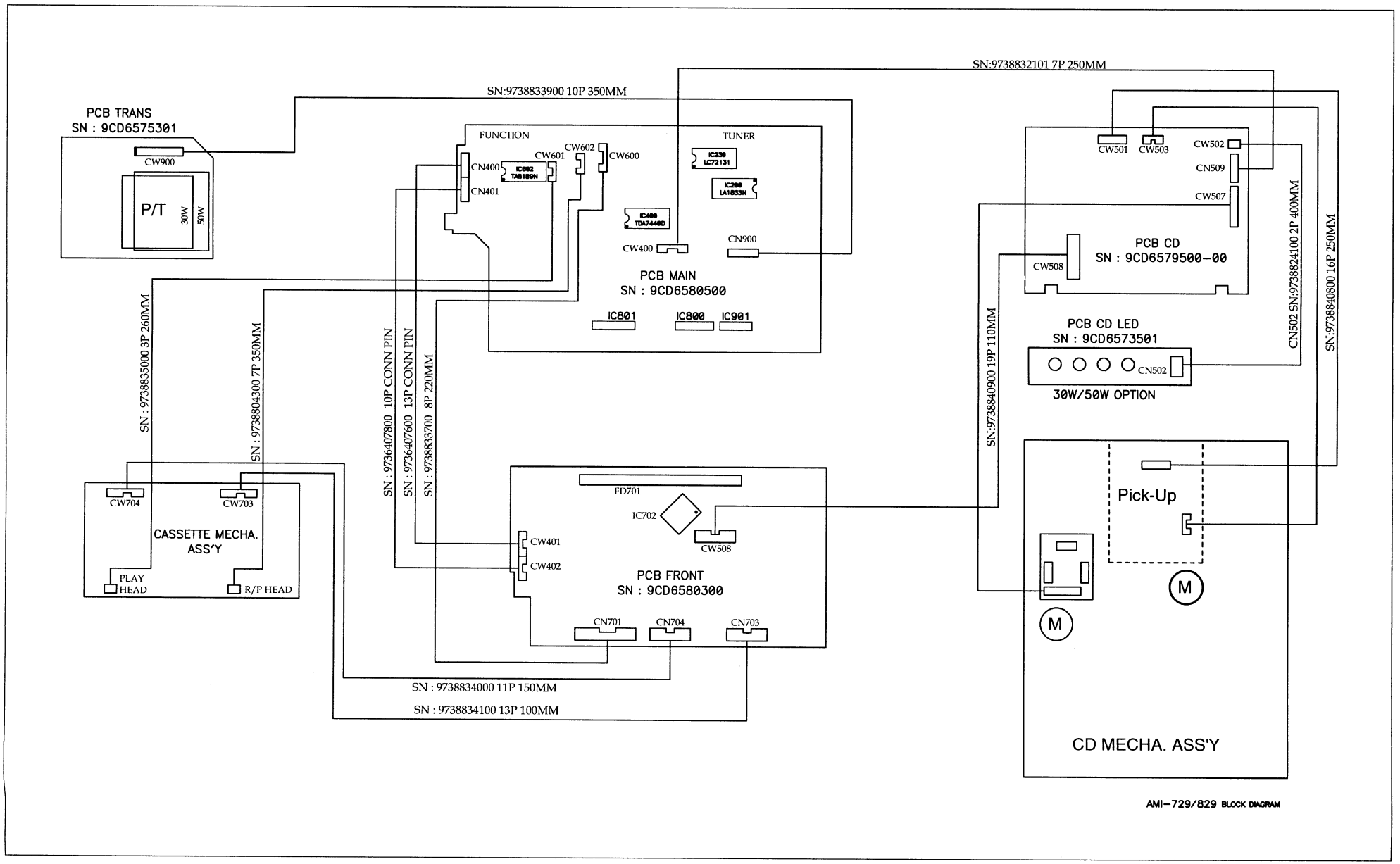
Exploded View and Mechanical Parts List

Model No:AMI-829L/R

NO	PARTS NAME	CODE NO.	DESCRIPTIONS	Q'TY	REMARKS
31	COVER BACK	9CD0409813	MIPS	1	
32	BRKT HEAT SINK	9CD2414600	SECC 1.0T	2	AMI-829L(50W)
33	BRKT HEAT SINK	9CD2414400	STS	1	AMI-829L(50W)
34	PLATE MICA "A"	9CD0910600	MICA	2	
35	DECO MD DOOR	9CD1003100	MIPS	1	
36	PLATE EON	9CD0911300	PVC 0.5T	1	DSP OPTION
S1	SCREW TAPTITE	7173261011	TT2 BIN 2.6X10 MFZN	12	
S2	SCREW TAPTITE	7173301011	TT2 BIN 3X10 MFZN	15	
S3	SCREW TAPTITE	7173301212	TT2 BIN 3X12 BK	25	
S4	SCREW TAPTITE	7173400611	TT2 BIN 4X6 MFZN	8	
S5	SCREW TAPTITE	7173300611	TT2 BIN 3X6 MFZN	5	
S6	WASHER SCREW	9CD3102400	TT2 BIN 3X10+D14	1	
S7	WASHER SCREW	9CD3102401	TT2 BIN 3X8+D10	4	AMI-829L(50W)
S8	SCREW TAPTITE	7173301412	TT2 BIN 3X14 BK	2	AMI-829L(50W)
P1	PCB CD	9CD6574800	197 X 123 X 1.6T	1	
P2	PCB FRONT	9CD6580300	247 X 139 X 1.6T	1	AMI-829(50W)
P3	PCB MAIN	9CD6580500	319 X 197 X 1.6T	1	AMI-829(50W)
P4	PCB POWER	9CD6580600	106.5 X 88 X 1.6T	1	AMI-829(50W)
P5	PCD OPTICAL JACK	9CD6577800	29 X 21.5 X 1.6T	1	

WIRING DIAGRAM

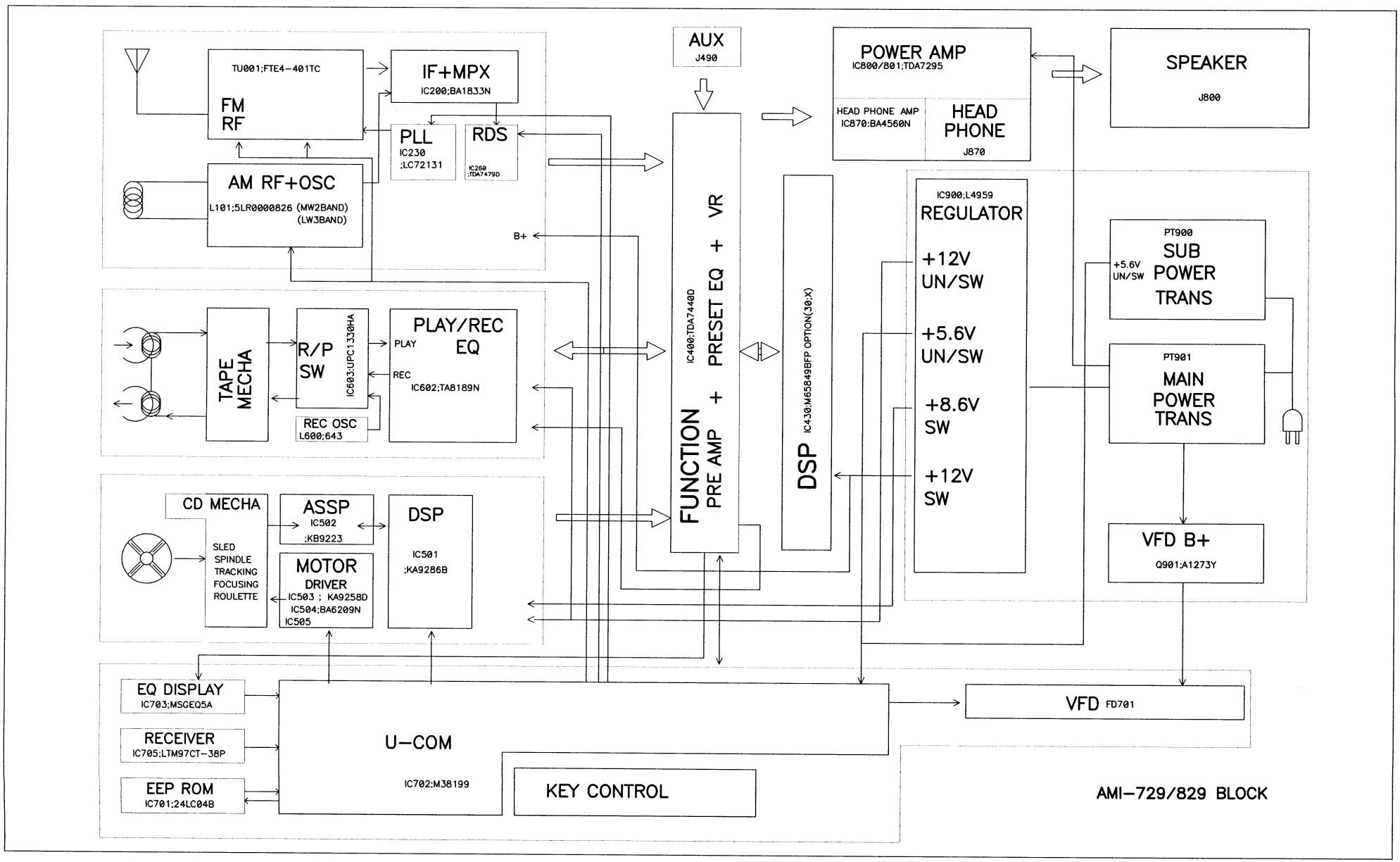
Model No:AMI-829L/R



AMI-729/829 BLOCK DIAGRAM

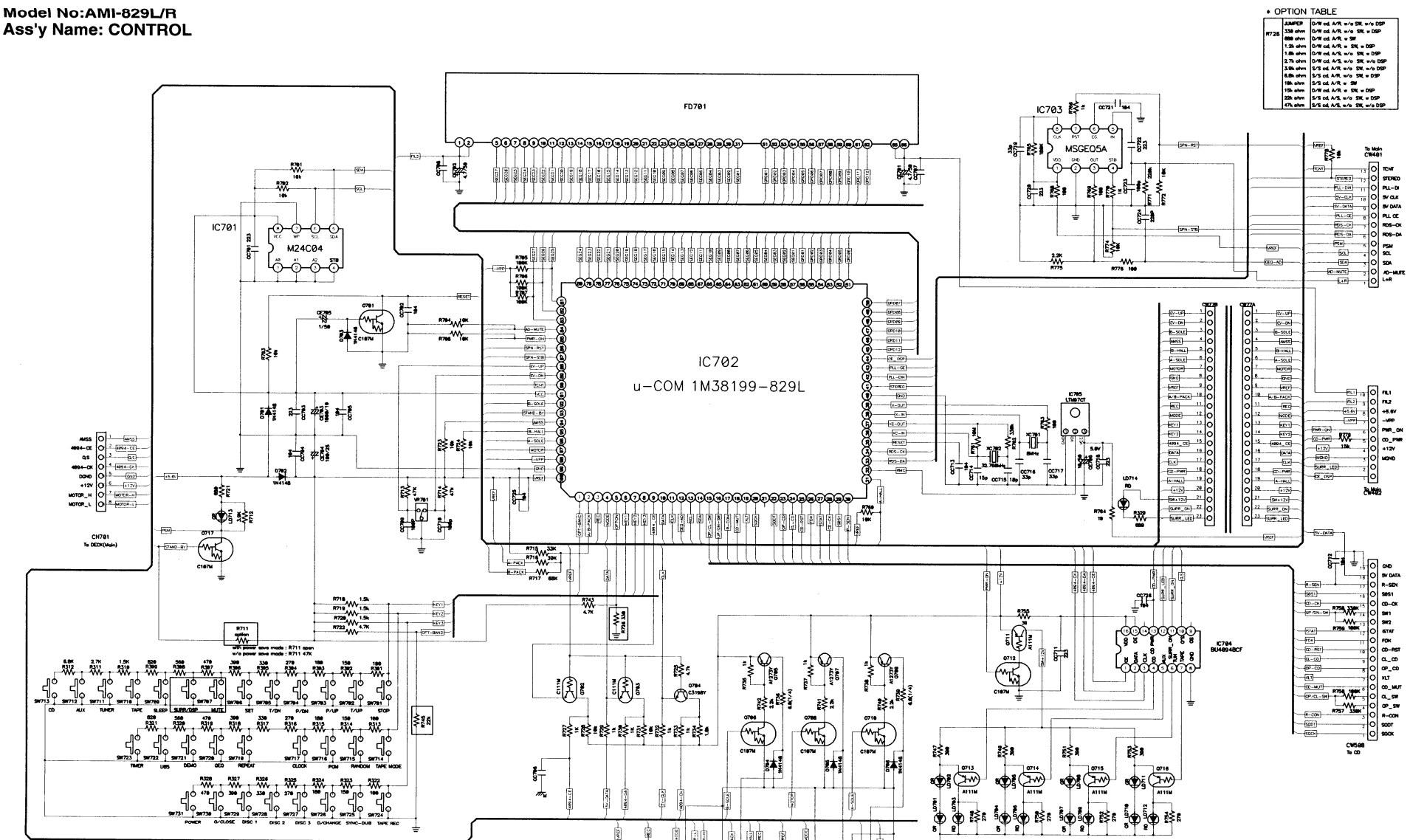
BLOCK DIAGRAM

Model No:AMI-829L/R



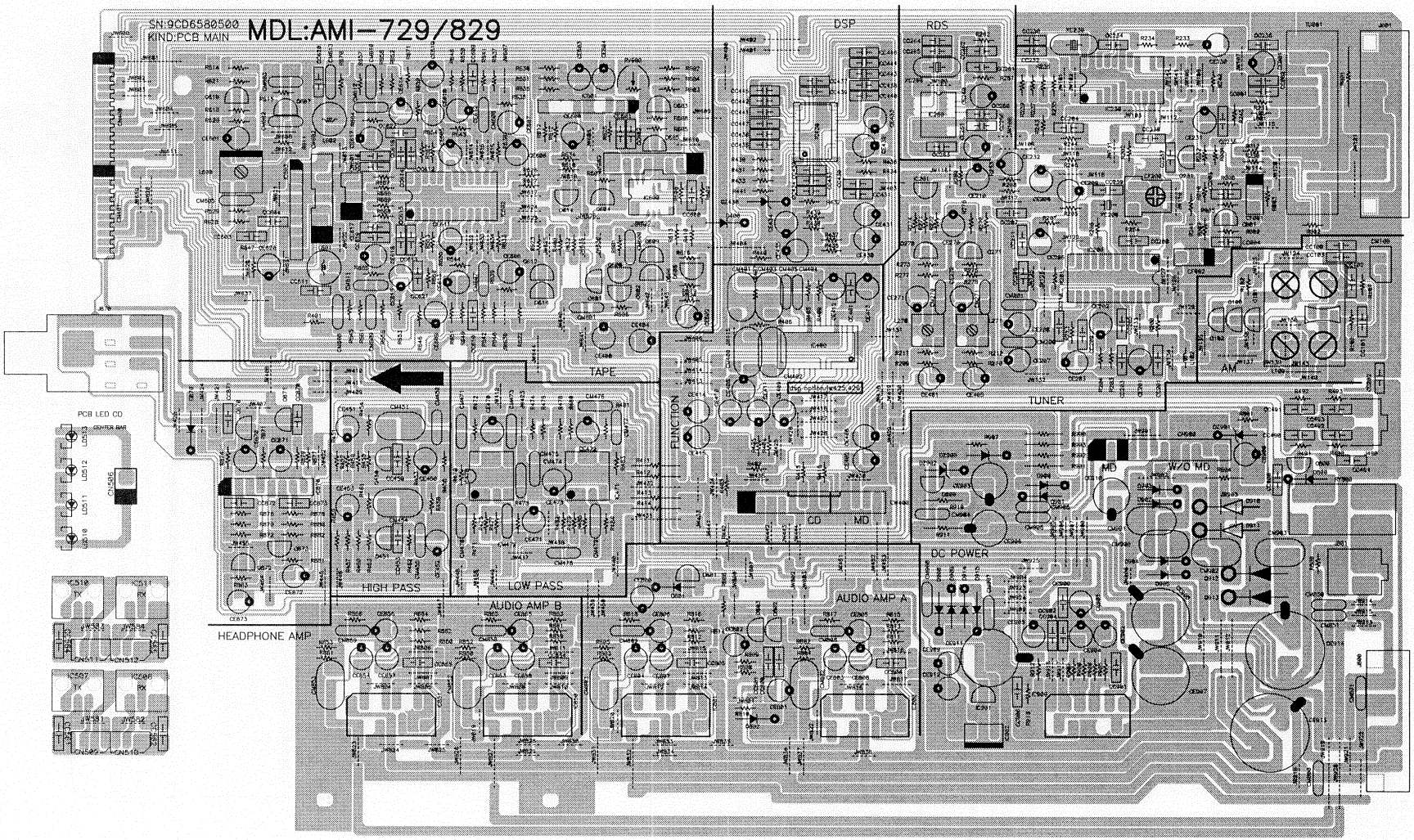
Schemetic Diagram

Model No:AMI-829L/R
Ass'y Name: CONTROL



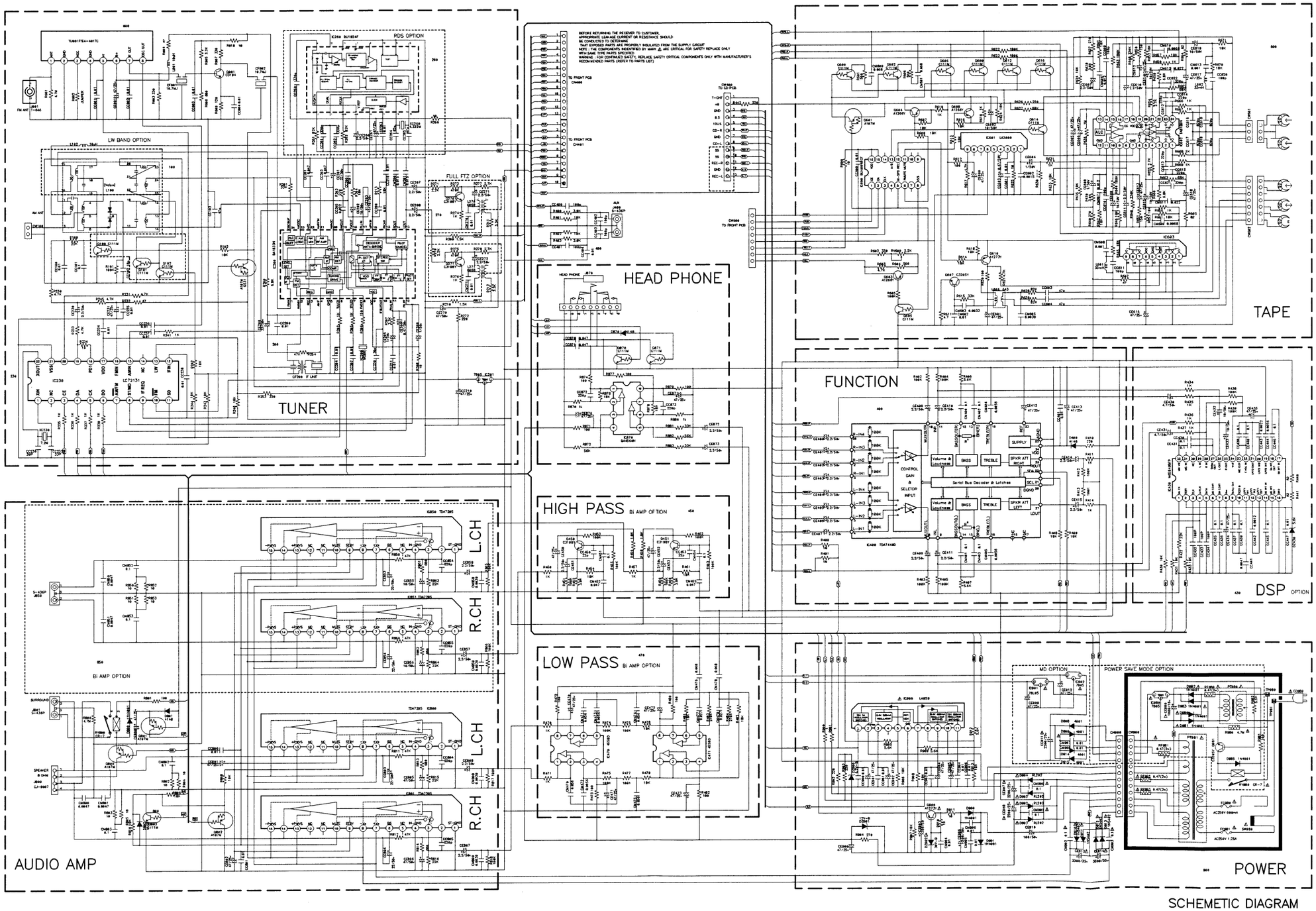
P.C.B Pattern Layout

Model No:AMI-829L/R
Ass'y Name: MAIN



Schemetic Diagram

Model No:AMI-829L/R
Ass'y Name: POWER/AMP/TUNER/TAPE

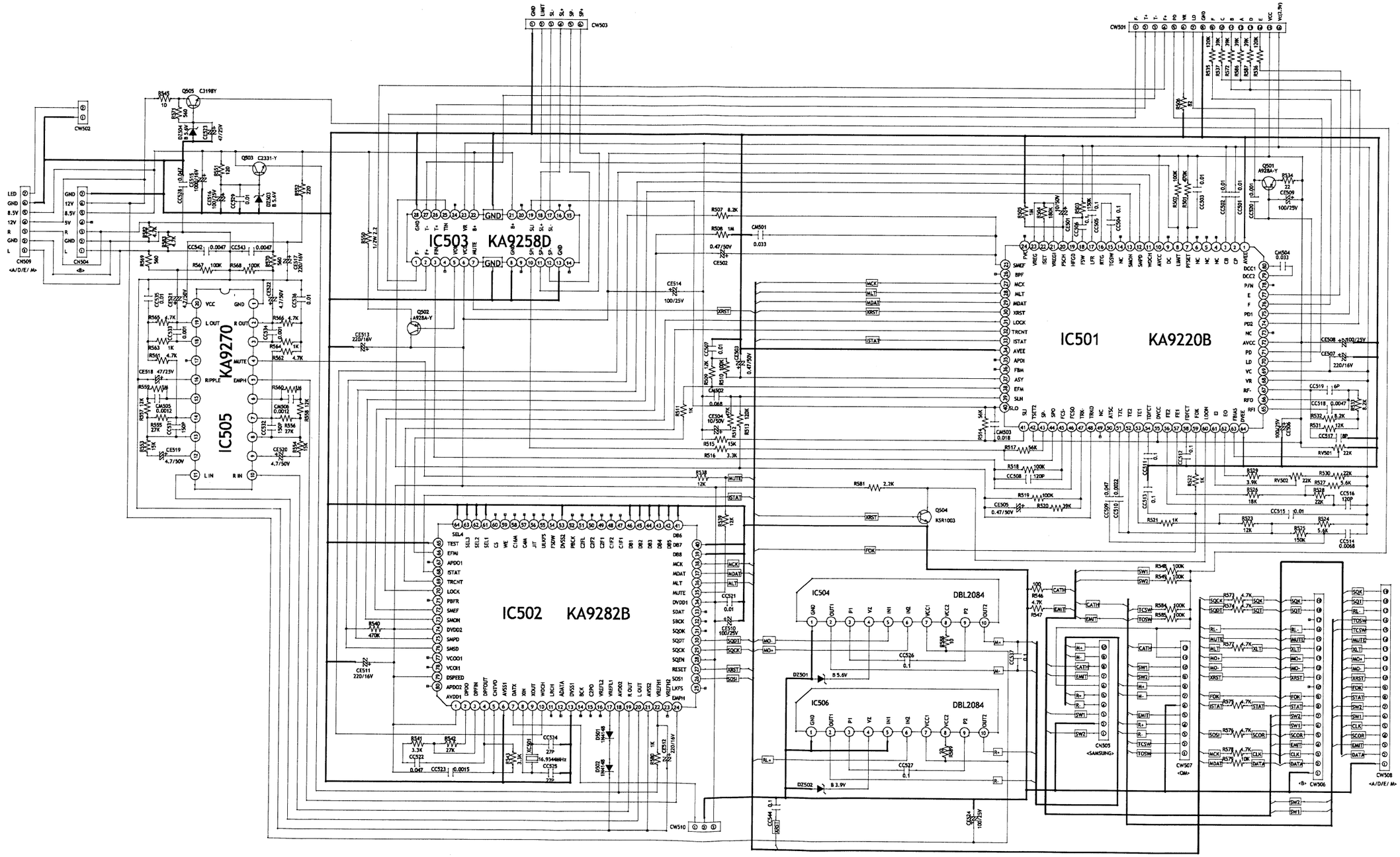


SCHEMETIC DIAGRAM
AMI-729/829MAIN

Schematic Diagram

◆ CD

◆ AMI - 829L/R



CD SCHEMATIC A1

TOP LIGHTING

LD513 LD512 LD511 LD510

AMI-810L ADDITION

IC581 IC78L05

Q582 KSC2331

CN581

LED B+
GND
CD B+
CD D B+
CH – R
A GND
CH – L

CN583 CN583

IC584 KA9279

CN587(CW587) CN585(CW585) CN586(CW586)

Q581 KSA928

IC583 KA9258D

IC587 KA9282B

Q583 KSA928

IC582 KA9228B

IC585 KA8301

IC586 KA8301

IC588 KA8301

Q586 KSA733YC

Q585 KSR1003

Q587 KSC945YC

Q584

D582 4.7V(1/2W)

D583 6.2V(1/2W)

D588 6.2V(1/2W)

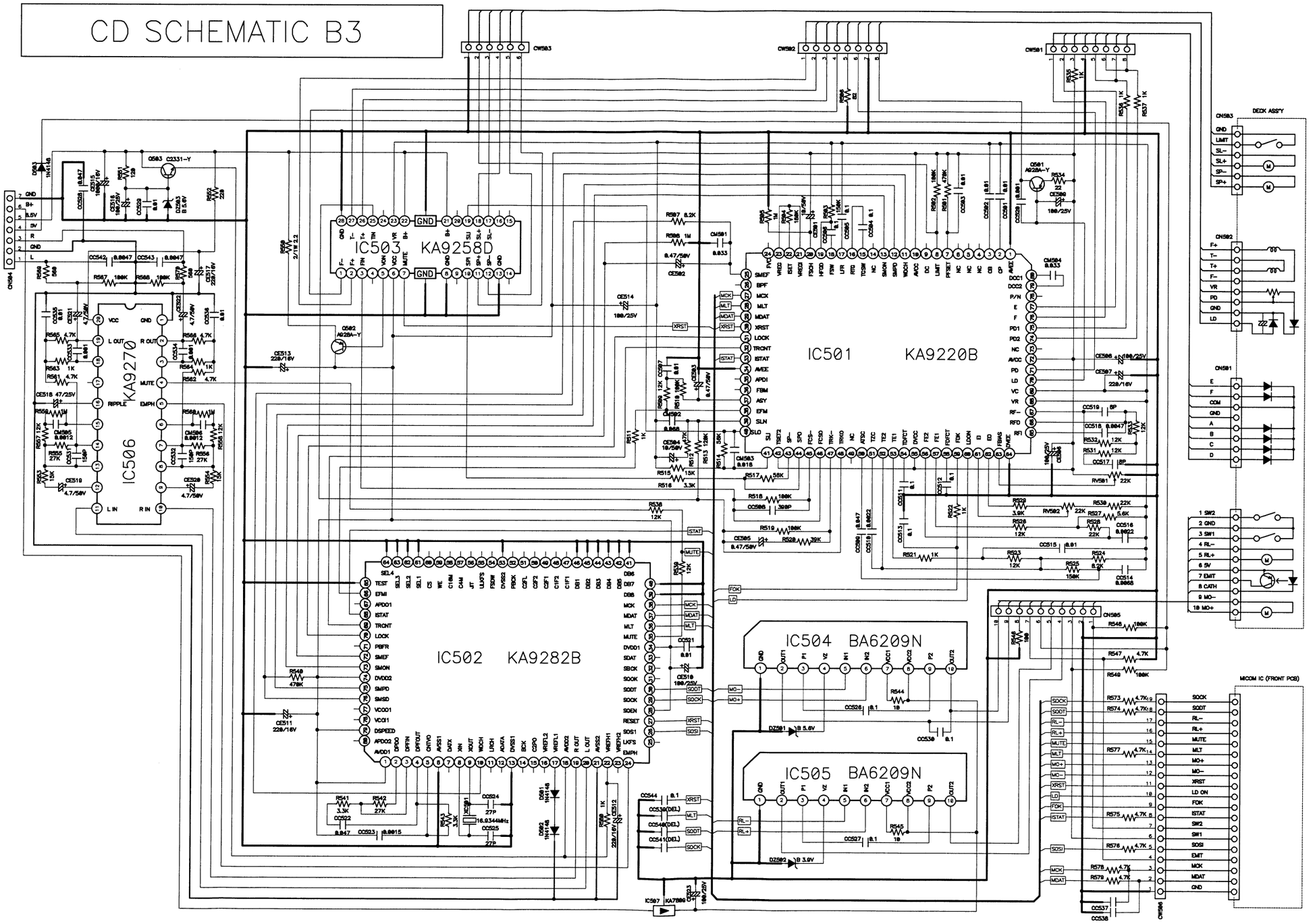
D589 5.6V(1/2W)

X581 16.93MHz

R591 : 4.7K
R592 : 4.7K
CC507 : 472

Title	AMI-508M/808L CD Section Schematic Diagram
Size A1	Number
Rev	
Date 1997. 10. 29	Drawn by JU DEOK LEE
Filename circuit A1	Sheet of

CD SCHEMATIC B3

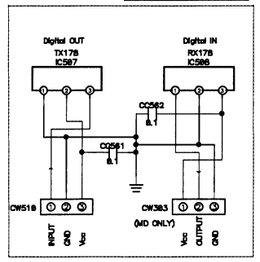


Title	AMI-308R		
Size A1	Number circuit B3		Rev 2
Date 98.02.20		Drawn by	
Filename circuit b3.sch		Sheet 1 of 1	

CD SCHEMATIC EM1

* CD Mecha Difference Parts List

LOC	D.W(DCC-01B TYPE)	S.S(FR3-B TYPE)
R535/536	120K	82K
R532/533	8.2K	10k
R526	18K	12k
R524/527	5.6K	8.2K
CC508	120pF	390pF
DZ502	B4.3V	B3.9V



OPTICAL JACK SCHEMATIC DIAGRAM

Name	Pin No	1	2	3	4	5	6	7	8	9	10	11	12
IC583	Voltage(V)	4	4	2.5	NC	7.3	5	5	GND	NC	3	4.5	3.8
	Pin No	13	14	15	16	17	18	19	20	21	22	23	24
	Voltage(V)	GND	NC	NC	NC	3.8	4	2.5	NC	8.4	8.4	2.5	NC
	Pin No	25	26	27	28								
	Voltage(V)	2.5	4	4	GND								

Name	Pin No	1	2	3	4	5	6	7	8	9	10
IC584	Voltage(V)	0	8.5	1	0	0	0	12	12	1	8.5

Name	Pin No	1	2	3	4	5	6	7	8	9	10
IC586	Voltage(V)	0	8.5	1	0	0	0	12	12	1	8.5

Name	Pin No	1	2	3	4	5	6	7	8	9	10	11	12
IC501	Voltage(V)	GND	W.F	W.F	NC	NC	NC	8.8	W.F	NC	5	W.F	W.F
	Pin No	13	14	15	16	17	18	19	20	21	22	23	24
	Voltage(V)	5	NC	2.5	2.5	2.5	2.5	2.5	2.5	3.5	2.2	3.5	2.2
	Pin No	25	26	27	28	29	30	31	32	33	34	35	36
	Voltage(V)	W.F	NC	W.F	W.F	W.F	5	5	W.F	W.F	GND	NC	NC
	Pin No	37	38	39	40	41	42	43	44	45	46	47	48
	Voltage(V)	2.5	W.F	2.5	W.F	2.5	5	2.5	W.F	2.5	2.5	2.5	2.5
	Pin No	49	50	51	52	53	54	55	56	57	58	59	60
	Voltage(V)	NC	2.5	2.5	2.5	2.5	2.5	5	2.5	2.5	2.5	5	0
	Pin No	61	62	63	64	65	66	67	68	69	70	71	72
	Voltage(V)	2.2	2	2.4	GND	W.F	W.F	0	5	5	3.5	2.5	5
	Pin No	73	74	75	76	77	78	79	80				
	Voltage(V)	NC	2.5	2.5	2.5	2.5	NC	W.F	W.F				

Name	Pin No	1	2	3	4	5	6	7	8	9	10	11	12
IC585	Voltage(V)	GND	SINE	–	–	5	5	–	–	–	SINE	SINE	–
	Pin No	13	14	15	16	17	18	19	20				
	Voltage(V)	–	–	–	–	NC	–	SINE	5				

Name	Pin No	1	2	3	4	5	6	7	8	9	10	11	12
IC582	Voltage(V)	5	3	5	3	3	GND	–	W.F	W.F	W.F	NC	NC
	Pin No	13	14	15	16	17	18	19	20	21	22	23	24
	Voltage(V)	GND	NC	NC	NC	–	7.2	W.F	W.F	GND	4	NC	0
	Pin No	25	26	27	28	29	30	31	32	33	34	35	36
	Voltage(V)	NC	W.F	5	5	W.F	W.F	NC	NC	NC	5	0	5
	Pin No	37	38	39	40	41	42	43	44	45	46	47	48
	Voltage(V)	W.F	W.F	GND	GND	GND	GND	GND	GND	GND	GND	NC	NC

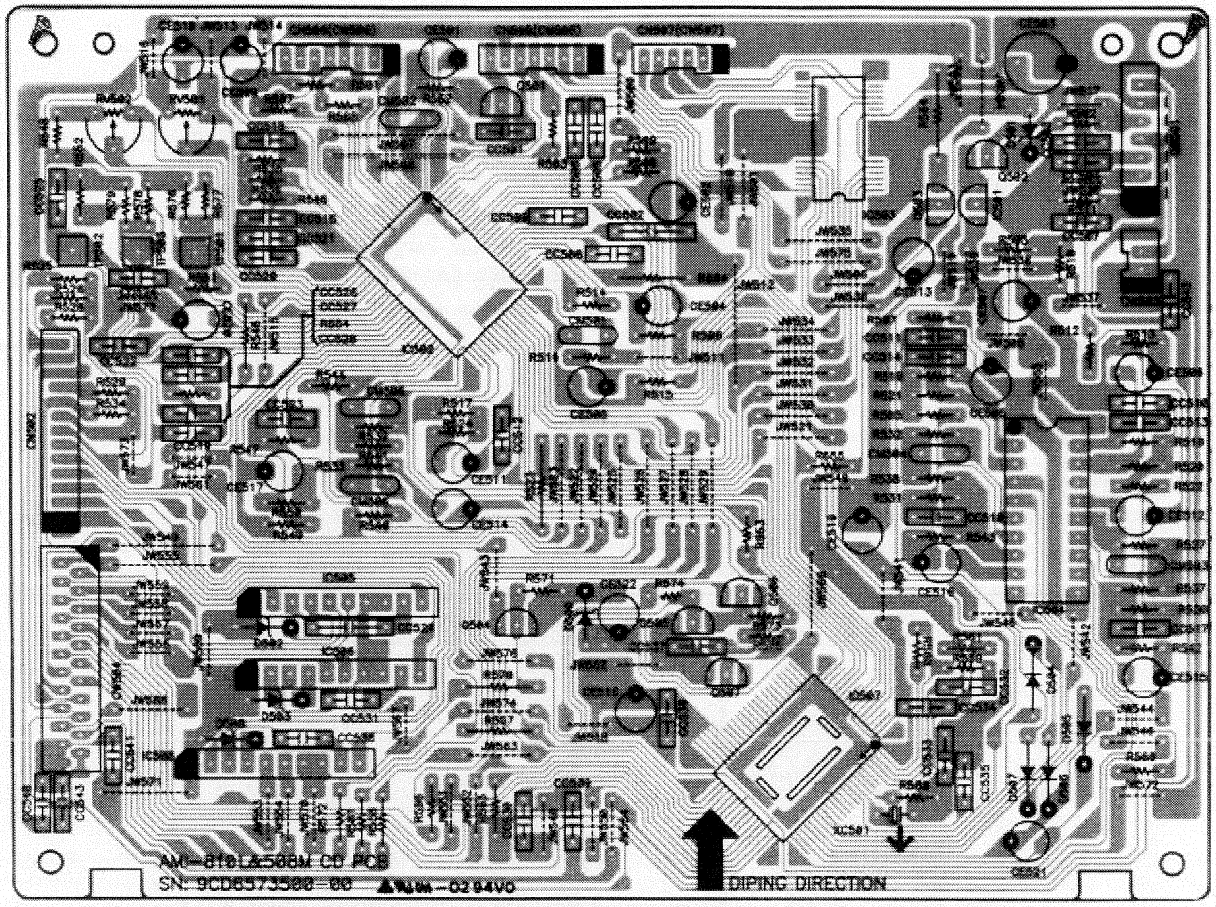
Name	Pin No	49	50	51	52	53	54	55	56	57	58	59	60
IC582	Voltage(V)	NC	NC	NC	NC	GND	NC	NC	NC	NC	NC	NC	NC
	Pin No	61	62	63	64	65	66	67	68	69	70	71	72
	Voltage(V)	GND	GND	GND	GND	GND	W.F	NC	W.F	W.F	W.F	NC	W.F
	Pin No	73	74	75	76	77	78	79	80				
	Voltage(V)	W.F	W.F	W.F	W.F	NC	NC	5	NC				

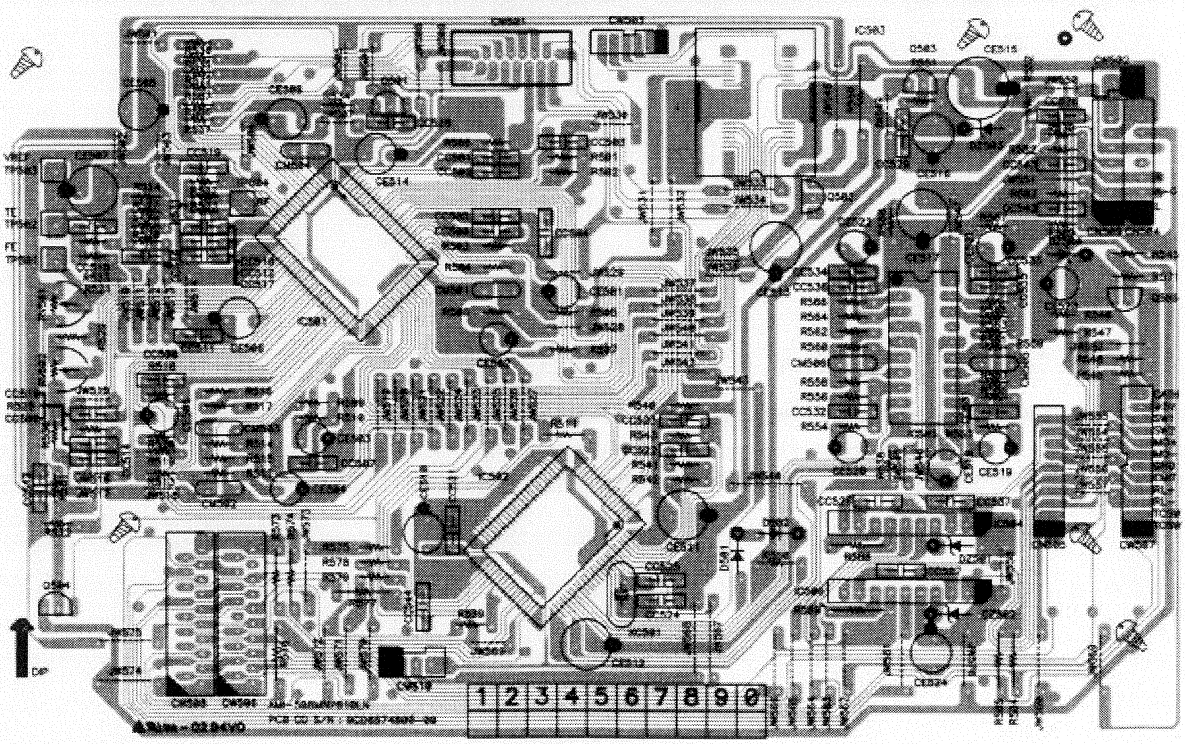
OPTION(OPTICAL JACK)

Title	CD SCHEMATIC DIAGRAM		
Size A1	Number		Rev 1
Date	1999. 4. 12.	Drawn by	JU DEOK
Filename	circuit EM1.sch	Sheet	of

P.C.B Pattern Layout

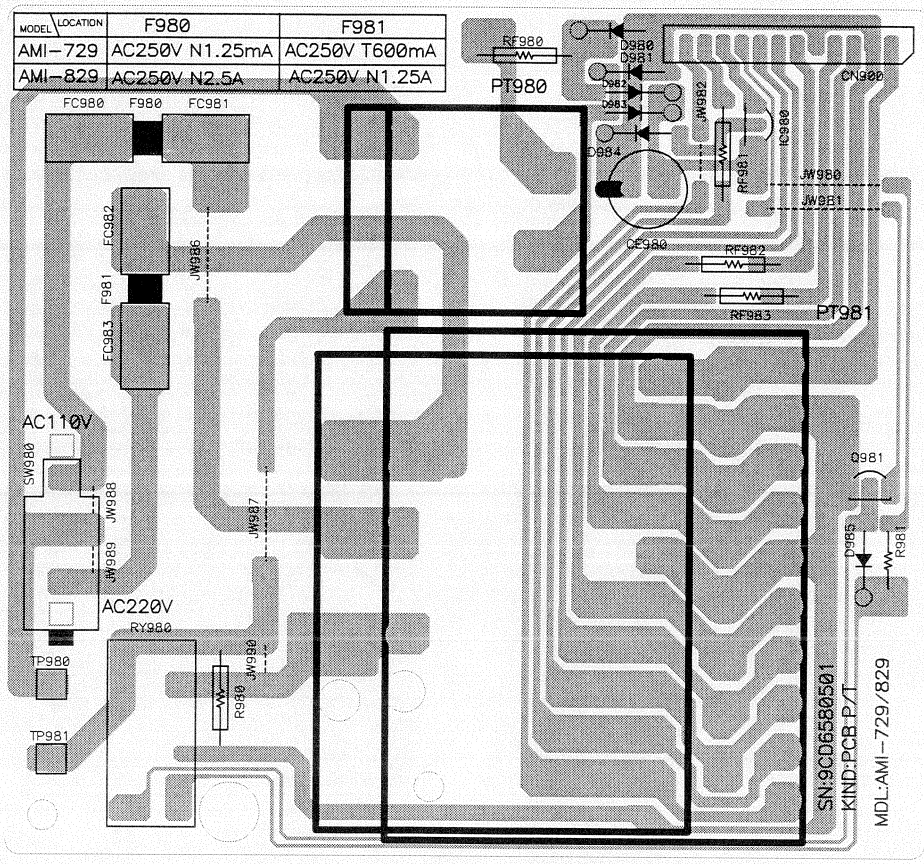
Model No:AMI- 926L/R
Ass'y Name: CD





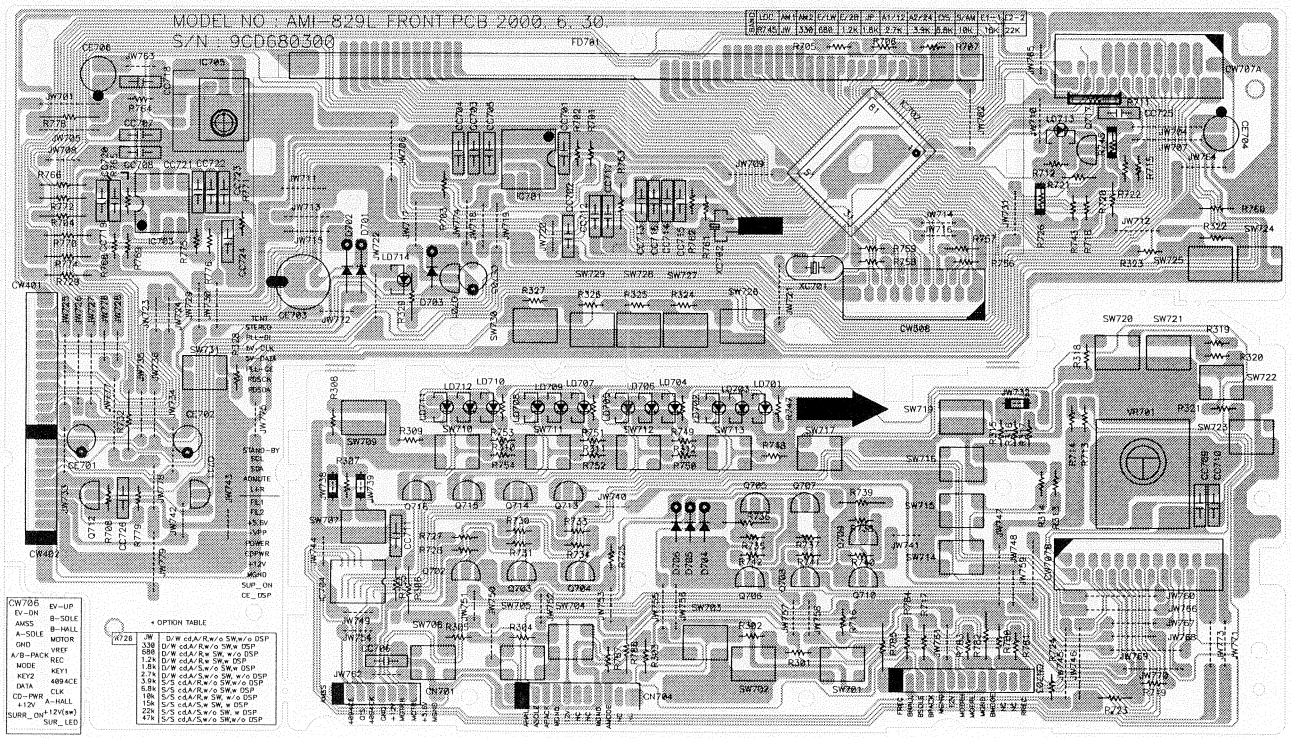
P.C.B Pattern Layout

Model No:AMI-829L/R
Ass'y Name: PT



P.C.B Pattern Layout

Model No:AMI-829L/R
Ass'y Name: CONTROL



Profectis
Technischer Kundendienst
QUELLE.

Serviceunterlage

Ergänzung zur Minianlage (2.Ausf.)

Neue CD-Mechanik

Produkt-Nr.:
015.025-0
036.178-2
035.812-7
035.866-3
248.674-4
484.536-8
769.966-3

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UTS-Nr.:          999          QUELLE
Best.Nr.:         0150250/02
Ger.Bez.:         UNIVERSUM MINIANLAGE

GKz:                G  GERAET
WGT:              650  MICRO-/MINI-ANLAGEN
KD-Sektor:          R  RUNDFUNK
BaumNr.:           00  KEIN DIAGNOSEBAUM VORHANDEN
Klassierung:      STK  STEREOKOMBINATION
IFW-FehlerGru.:   205  RDF.,VERST.,TB.,PHONO,CD,CB
Type/Privileg/Universum.Nr
Beschreibung                BGL.MIT 484.536
VK-Preis: 399.00

Serviceart:             01  PROFECTIS
Garantie fuer Kunden    12 Monate
Sondervereinbarungen:    0  SIEHE SERVICEART

Garantiereparatur      0004063  PROFECTIS GMBH
Sondervereinbarungen:        0  SIEHE SERVICEART

--------------------------------------------------------------------------------
Katalog                                          Seite
  Erst  005 SONDERKATALOGE H/W 2000               0000
  Letzt 005 SONDERKATALOGE H/W 2000               0000

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Geraete Info:

--------------------------------------------------------------------------------
Technische Daten:

--------------------------------------------------------------------------------
Fehler:

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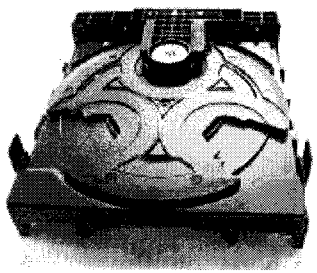
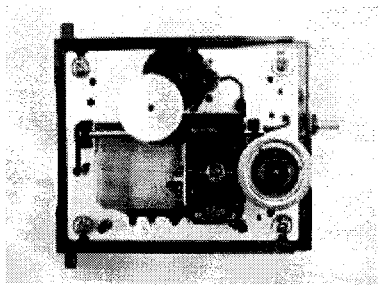
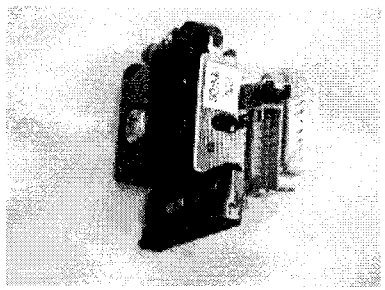
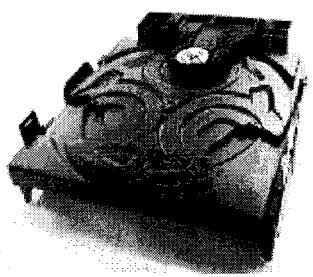
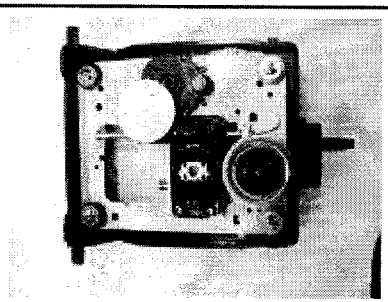
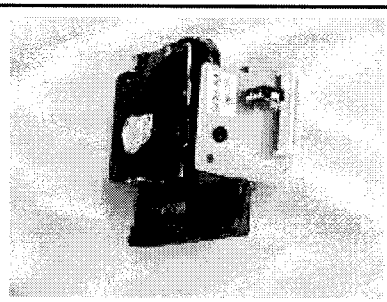
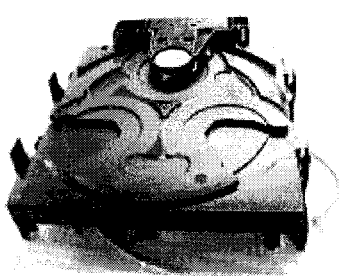
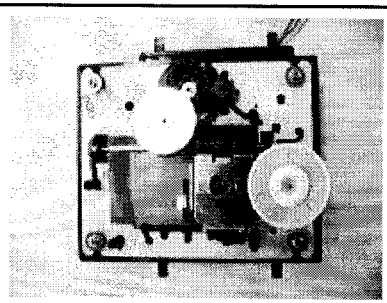
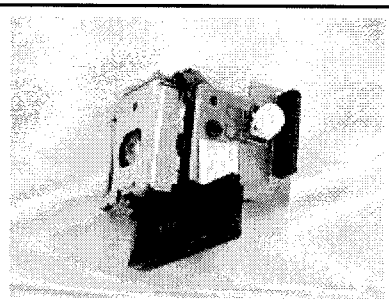
Nachdruck nicht gestattet
Änderungen vorbehalten

CD Deck Mechanism Reference Table

S/N [Maker]	Mechanism	Driving unit	Optical Pick-up
9CD3006100 [SAMSUNG] **CMS-CR3**		 **CMS-A30NG6**	 **SOH-A1**
9CD3006600 [SAMSUNG] **CMS-FR3**			
9CD6007100 [SAMSUNG] **CMS-FR3B**		 **CMS-B31NG6**	 **SOH-AA**
9CD3006900 [DAEWOO] **DCC-01BD/A**		 **DDU-03B**	 **DOP-011B**

CD Deck Mechanism Reference & PCB Matching Table

CD Deck Mechanism S/N	Maker	Mechanism	Driving Unit	Optical Pick-up	MI-Com	MODEL	PCB S/N	Circuit Diagram
9CD3006100	SAMSUNG	CMS-CR3	CMS-A30NG6	SOH-A1	1M38184508	AMI-508M/511M AMI-708M/711M	9CD6573500	A1
					1M38184810	AMI-810L	"	"
9CD3006600	"	CMS-FR3	"	"	1M38199---	AMI-308M/308R	9CD6574300	B3
					1M38199710	AMI-310L/710L AMI-810LCG	"	"
9CD6007100 9CD3006900	SAMSUNG DAEWOO	CMS-FR3B DCC-01BD/A	CMS-B31NG6 DDU-03B	SOH-AA DOP-011B	1M3818481N	AMI-810LN	9CD6574800	EM1
					1M3818450N	AMI-508MN/511MN AMI-708MN	"	"
					1M38199316	AMI-316L/317L AMI-716L/717L	"	"
					1M38199917	AMI-816L/817L AMI-917L/816LS AMI-817LS/910L	"	"
					1M38199208	AMI-208MC/308MC AMI-508MC/211MC AMI-311MC	"	"
					1M38199319	AMI-224M/324M AMI-318M/518M AMI-319M/519M	"	"
					1M38199516	AMI-516DP/517DP	"	"
					1M38199721	AMI-721L/726L AMI-921DP	"	"

Schematic Diagram (B3) CD Modification List

Issued by CD part
Issued on 2000 . 3. 8.

No.	Problem	Locations	Before	After	Date	Mechanism
	Comment	R535	1k	1k	1998.01.??.	
1	EMI spec over	CC547, CC545, CC548, CC546	---	C cera 0.1u	1998.02.??.	FR-3
2	CD door OP/CL noise on radio function	CC530	---	C cera 0.1u	1998.02.??.	FR-3
3	EMI spec over	CC542, CC543	c cera 390p	C cera 0.0047u	1998.02.??.	FR-3
4	Tray(roulette) positioning error	R547	12k	4.7k	1998.02.??.	FR-3
5	Electrostatic spec over	CC544	---	C cera 0.1u	1998.02.??.	FR-3
6	EMI spec over	R573, R575, R578	---	4.7k	1998.02.??.	FR-3
7	Burn resister	R588, R589	1/6W 10 ohm	1/4W 10 ohm	1998.02.??.	FR-3
8	EMI spec over	CC537, CC538, CC539, C540, CC541	150p	delete	1998.02.??.	FR-3
9	TOC reading error in strong radio frequency field	R536, R536	---	1k	1998.02.??.	FR-3
10	Tray(roulette) positioning error	DZ502	Z4.3V	Z3.9V	1998.03.??.	FR-3
11	EMI spec over	R576, R577, R574	---	4.7k	1998.03.??.	FR-3
		R579	4.7k	10k		
12	Cost Down	XC501	X-tal	Resonator	1998.10.??.	FR-3
		CC524,CC525	27p	22p		
13	High temperature operation NG	CC529, CC535, CC536, CC507, CC521 CC501, CC502, CC503, CC515	C Cera 0.01u Radial	C Cera 0.01u Axial	1999.10.24.	FR-3

Schematic Diagram (EM1) CD Modification List

Issued by CD part
Issued on 2000 . 3. 8.

No.	Problem	Locations	Before	After	Date	Mechanism
1	EMI spec over	CC542, CC543	C cera 390p	C cera 0.0047u	1998.10.??.	All
2	EMI spec over	CC547, CC545	---	C cera 0.1u	1998.10.??.	All
3	EMI spec over	CC548, CC546, CC549	---	"	1998.10.??.	
4	Cost down	XC501	X-tal	Resonator	1998.10.??.	All
		CC524,CC525	27p	22p		
5	Electrostatic spec over	CC544	---	R cera 0.1u	1998.10.??.	All
6	CD door op/cl noise on radio function	CC537	---	C cera 0.1u	1998.10.??.	All
7	Tray(roulette) positioning error	R547	12k	4.7k	1998.10.??.	All
8	EMI spec over	R576, R577, R574	---	4.7k	1998.10.??.	
		R579	4.7k	10k		
9	EMI spec over	R573, R575, R578	---	4.7k	1998.10.??.	
10	Weak playability on scratch which is made radial direction	CC508	120p	390p	1998.11.??.	FR-3
		CC516	120p	0.0022u		

No.	Problem	Locations	Before	After	Date	Mechanism
11	Burn resister	R588, R589	1/6W 10 ohm	1/4W 10 ohm	1998.12.??.	All
12	Tray(roulette) positioning error	DZ502	Z4.3V	Z3.9V	1999.01.??.	Daewoo
13	Reduce stand-by current	R546	100 ohm	220ohm	1999.01.??.	All
14	Cannot read TOC at some disc	R517	56k	82k	1999.02.05.	Daewoo
15	Cannot read TOC at some disc	CC519	6p	3p	1999.02.05.	Daewoo
16	Noise at outer tracks in 783 disc	R517	82k	56k	1999.02.05.	Daewoo
17	Eccentricity disc error	R535, R536	120K	82k	1999.03.06.	FR-3B
		turn table	B31SG6	B31NG6		
18	Track jump by sound pressure	R524	5.6k	8.2k	1999.03.06.	FR-3B
19	EMI spec over	CC550	---	C cera 0.1u	1999.04.??.	All
		R590	---	1k		
20	EMI spec over	CC544	Reset to GND	Reset to Vcc	1999.04.??.	All
		CC563	----	C cera 100p		
		R511	Near DSP IC	Near SSP IC		
21	731RA noise	CC517	8p	33p	1999.05.05.	FR-3B
		R532, R533	12k	10k		
22	TOC reading error	CC519	3p	Delete	1999.05.26.	
23	794 TOC reading error	CC517	33p	22p	1999.07.20.	
24	High temperature operation NG	CC529, CC535, CC536, CC507, CC521, CC501, CC502, CC503, CC515	C cera 0.01u radial	C cera 0.01u axial	1999.10.24.	All
25	Aging test NG (some lot)	Rubber cushion	5phi Hardness : 25 Material : butyl	5phi (change shape)	2000.0?.??.	Daewoo
26	Digital out data block sync error	DSP IC pin # 28	H : external clock	L : internal clock		

Option list for EM1

no		Locations	Daewoo	Samsung		Mechanism
1		Mechanism	DCC-01B	FR-3B		
2		R535, R536	120k	82k		
3		R532, R533	8.2k	10k		
4		R526	18k	12k		
5		R524, R527	5.6k	8.2k		
6		CC508	120p	390p		
7		DZ502	Z4.3V(or * Z3.9V)	Z3.9V	Please check original value	
8		R517	82k	56k		

DISASSEMBLY OF THE CD PLAYER BLOCK

1. 9CD3006900[C-01BD/A -DAEWOO]

The exchange of driving unit ass'y.

NOTE

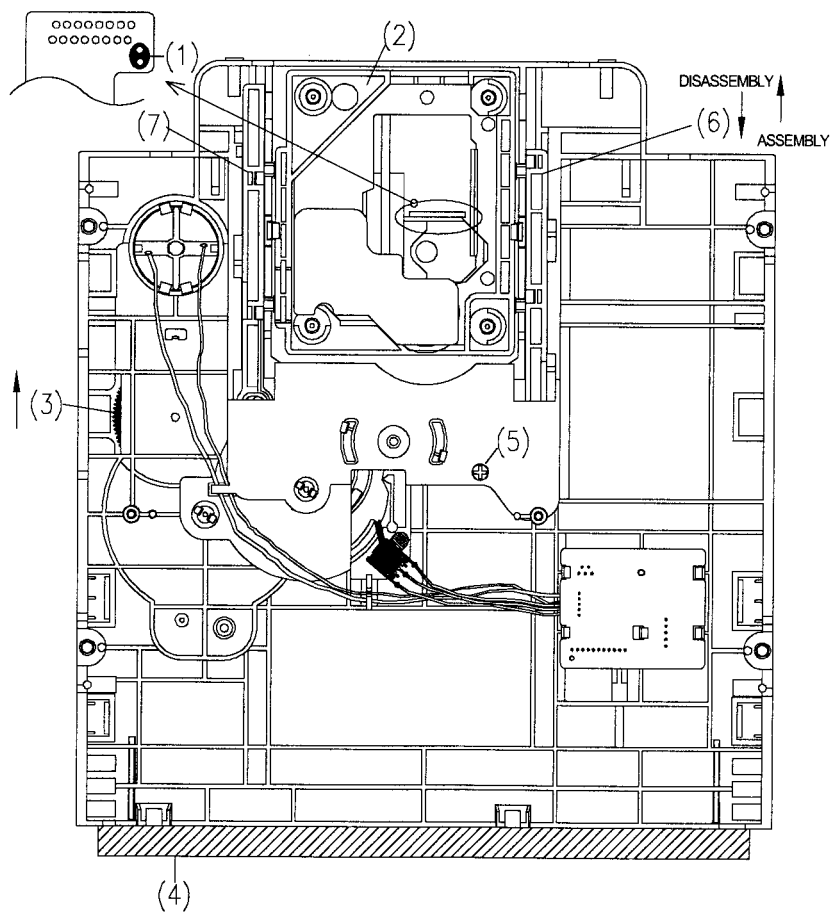
Power must be supplied before the exchange.
During the exchange, prevention band for static electricity must be in wear.
(To avoid the damage of pick-up for static electricity)

A. Separation of D/U ass'y.

1. Short terminal (1) on pick-up PCB after separating mecha from set.
2. Take down D/U ass'y (2) through turning relay gear (3) in CCW direction.
3. Release screw (5).
4. Push slider 'L' (6) in the direction of screw (5).
5. Separate D/U ass'y (2).

B. Assembly of D/U ass'y.

1. Put D/U ass'y between slide 'R' (7) and slider 'L' (6).
2. Push slider 'L' (6) in the opposite direction of screw (5).
3. Lock screw (5).
4. Open terminal (1) on pick-up PCB.
5. Put mecha on set.



DISASSEMBLY OF THE MAIN COMPONENTS

The exchange of tray ass'y.

NOTE

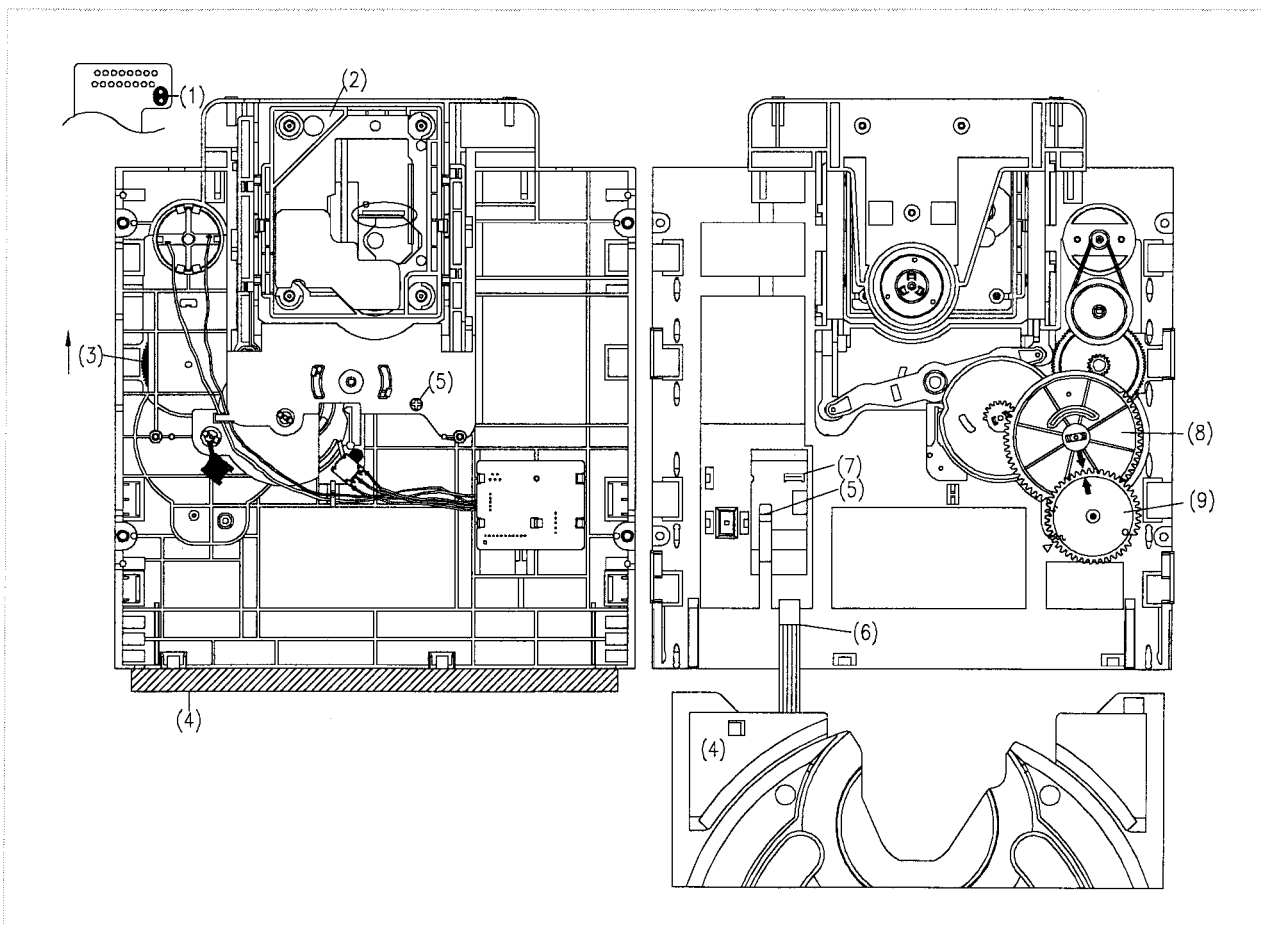
Power must not be supplied before the exchange.
During the exchange, prevention band for static electricity must be in wear.
(To avoid the damage of pick-up for static electricity)

A. Separation of tray ass'y.

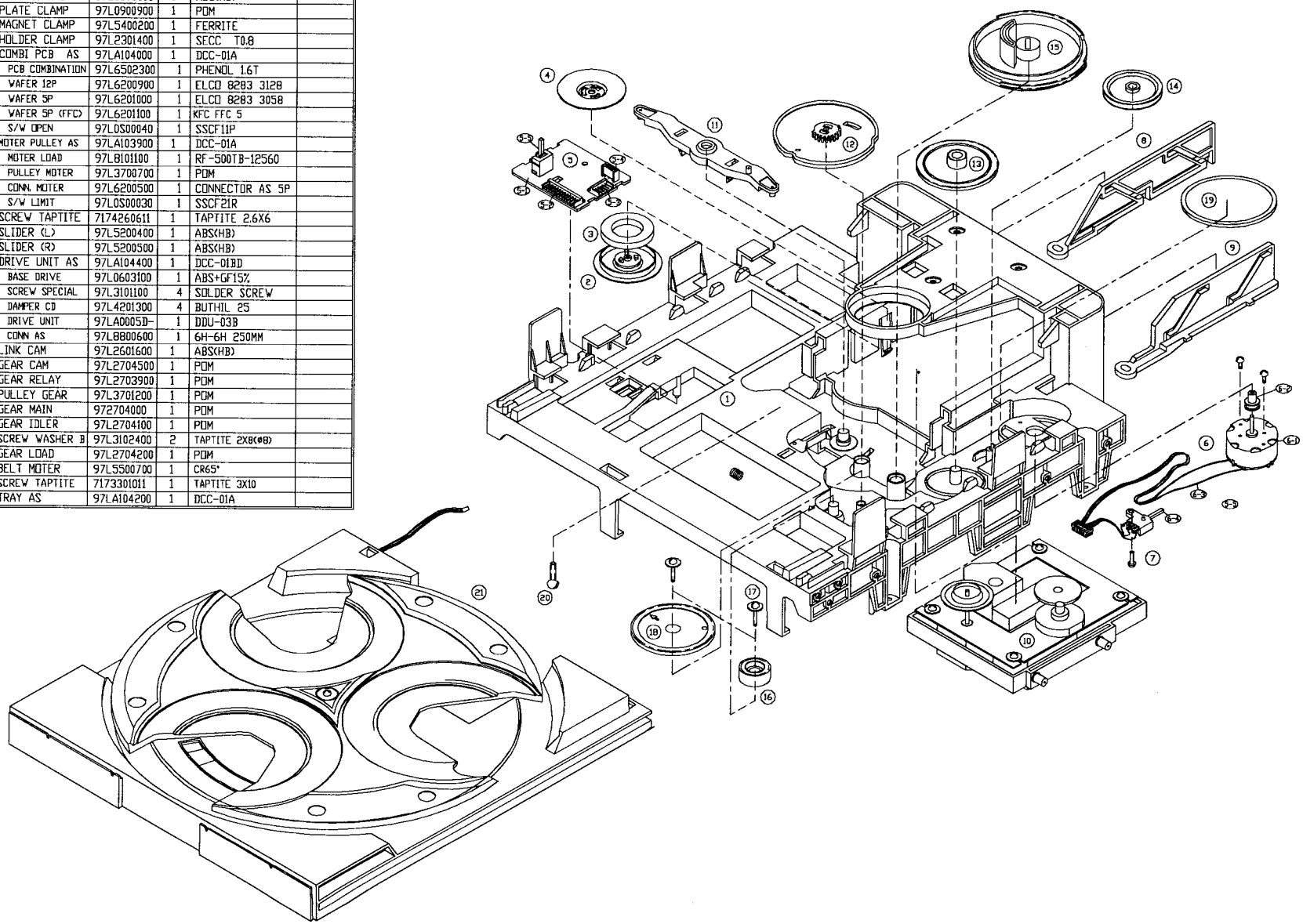
1. Short terminal (1) on pick-up PCB after separating mecha from set.
2. Open tray ass'y (4) through turning relay gear (3) in CW direction.
3. Pull tray ass'y until tray ass'y contact hook (5) of chassis/m.
4. Separate FCC (5P) (6) from water (7).
5. Pull tray ass'y throughly pressing hook (2).

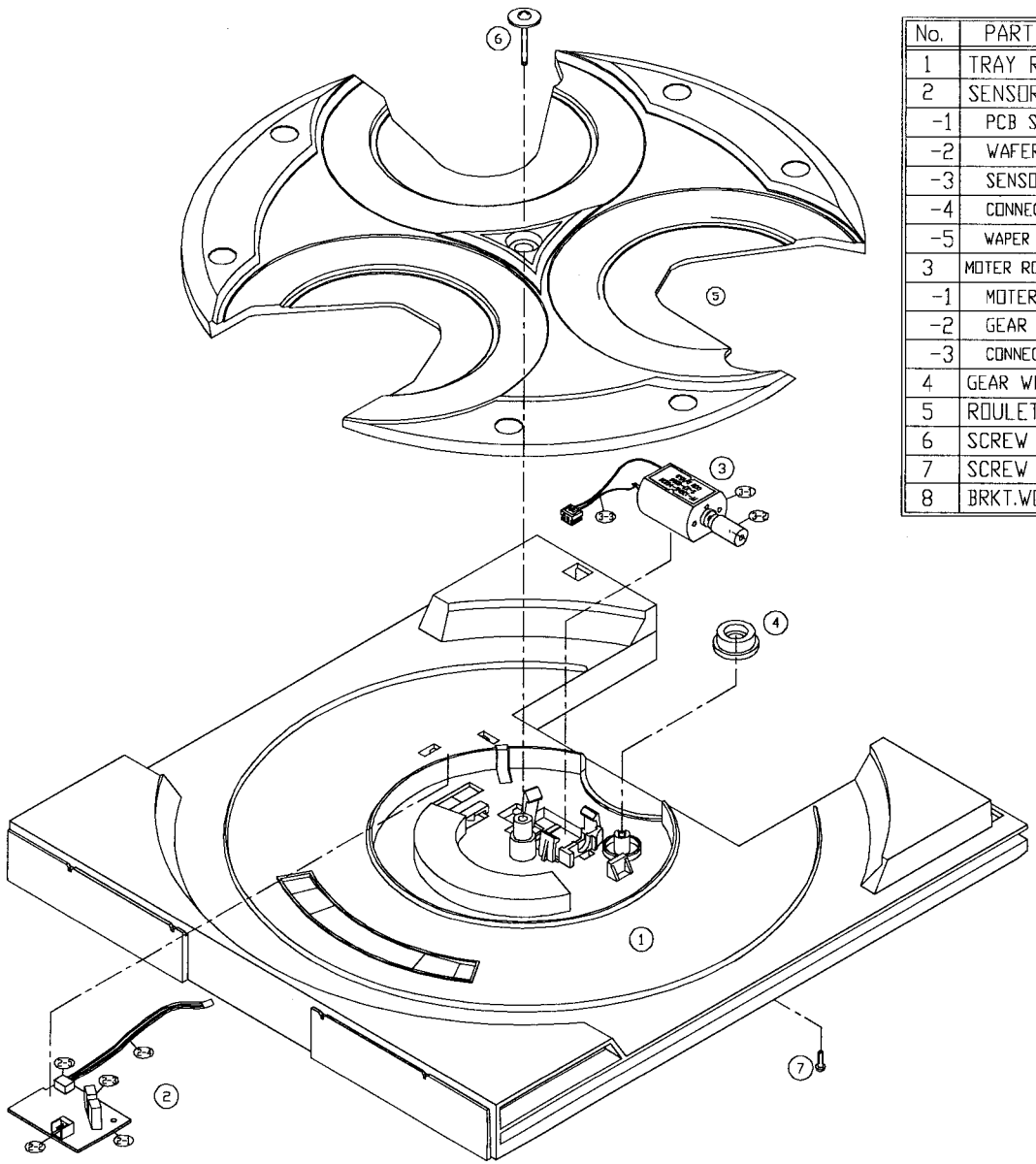
B. Assembly of tray ass'y.

1. Turn loading gear (9) until arrow mark on main gear (8) meets that on loading gear (9).
2. Push tray ass'y (4) pressing hook (5) slightly.
   (Pay attention to FCC(5P)(6) in flat, or touch noise may happen.)
3. Put FCC (5P) (6) into water (7).
4. Push tray ass'y (4) throughly.
5. Open terminal (1) on pick-up PCB.
6. Put mecha on set.

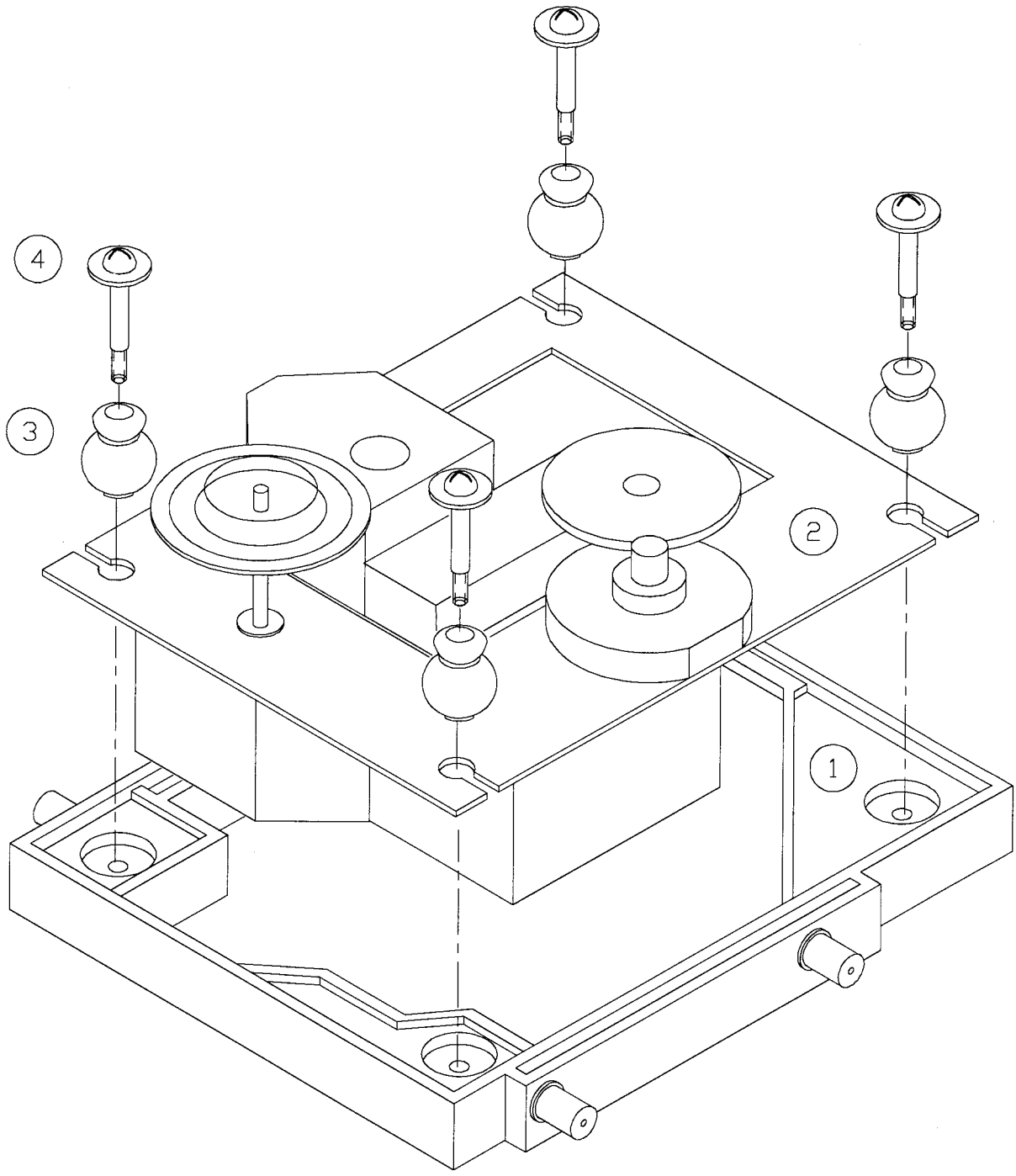


No.	PART NAME	PART No.	QUAN.	MATERIAL	REMARK
1	CHASSIS MAIN	97L0603000	1	ABS(HB)	
2	PLATE CLAMP	97L0900900	1	POM	
3	MAGNET CLAMP	97L5400200	1	FERRITE	
4	HOLDER CLAMP	97L2301400	1	SECC T0.8	
5	COMBI PCB AS	97LA104000	1	DCC-01A	
-1	PCB COMBINATION	97L6502300	1	PHENOL 1.6T	
-2	WAFER 12P	97L6200900	1	ELCO 8283 3128	
-3	WAFER 5P	97L6201000	1	ELCO 8283 3058	
-4	WAFER 5P (FFC)	97L6201100	1	KFC FFC 5	
-5	S/W OPEN	97L0S00040	1	SSCF11P	
6	MOTER PULLEY AS	97LA103900	1	DCC-01A	
-1	MOTER LOAD	97L8101100	1	RF-500TB-12560	
-2	PULLEY MOTER	97L3700700	1	POM	
-3	CONN MOTER	97L6200500	1	CONNECTOR AS 5P	
-4	S/W LIMIT	97L0S00030	1	SSCF21R	
7	SCREW TAPTITE	7174260611	1	TAPTITE 2.6X6	
8	SLIDER (L)	97L5200400	1	ABS(HB)	
9	SLIDER (R)	97L5200500	1	ABS(HB)	
10	DRIVE UNIT AS	97LA104400	1	DCC-01BD	
-1	BASE DRIVE	97L0603100	1	ABS+GF15%	
-2	SCREW SPECIAL	97L3101100	4	SOLDER SCREW	
-3	DAMPER CD	97L4201300	4	BUTHIL 25	
-4	DRIVE UNIT	97LA0005D-	1	DDU-03B	
-5	CONN AS	97L8800600	1	6H-6H 250MM	
11	LINK CAM	97L2601600	1	ABS(HB)	
12	GEAR CAM	97L2704500	1	POM	
13	GEAR RELAY	97L2703900	1	POM	
14	PULLEY GEAR	97L3701200	1	POM	
15	GEAR MAIN	972704000	1	POM	
16	GEAR IDLER	97L2704100	1	POM	
17	SCREW WASHER B	97L3102400	2	TAPTITE 2X8(Φ8)	
18	GEAR LOAD	97L2704200	1	POM	
19	BELT MOTER	97L5500700	1	CR65*	
20	SCREW TAPTITE	7173301011	1	TAPTITE 3X10	
21	TRAY AS	97LA104200	1	DCC-01A	





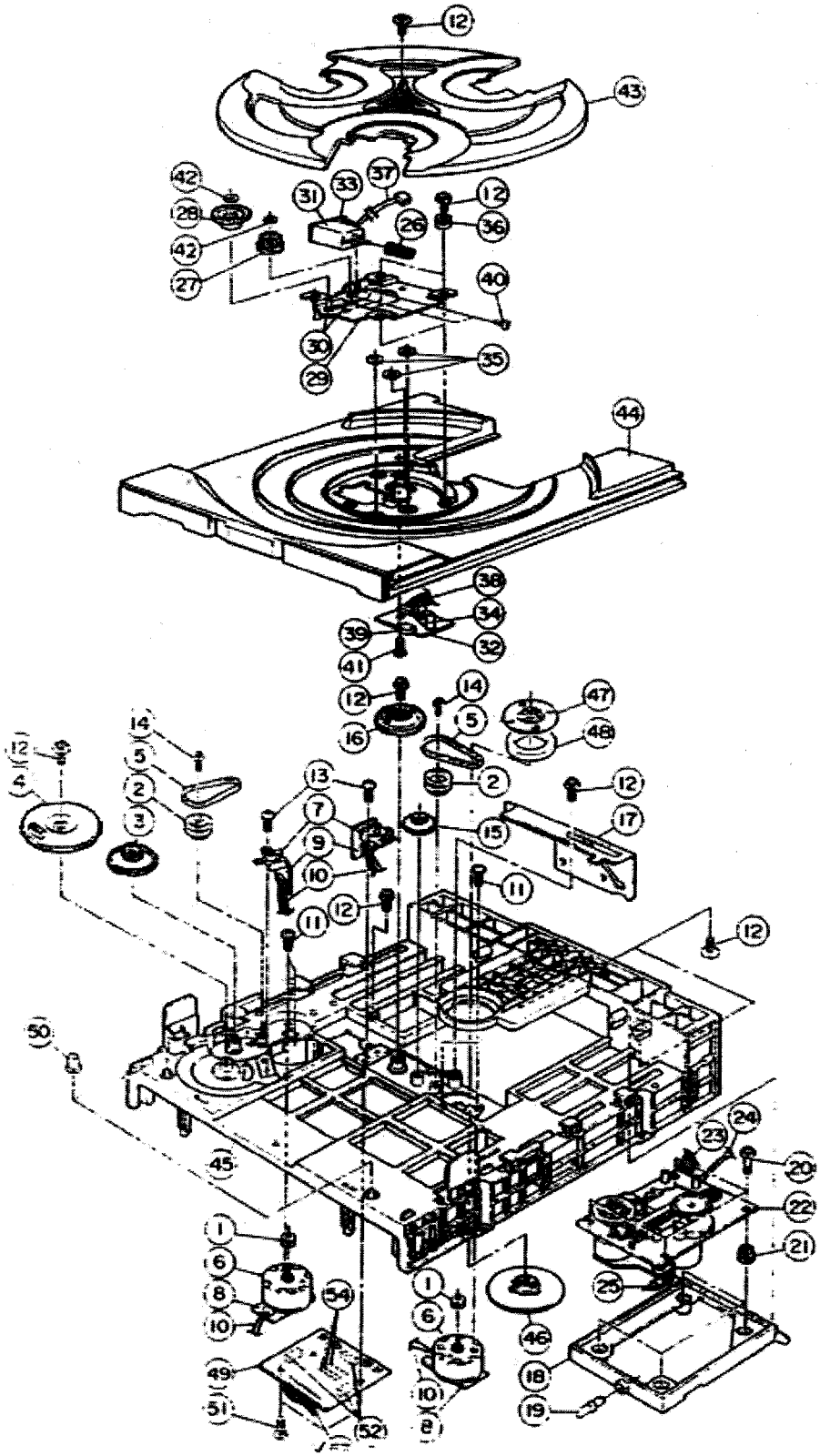
No.	PART NAME	PART No.	QUAN.	MATERIAL	REMARK
1	TRAY ROULETTE	97L0902700	1	ABS(HB)	
2	SENSOR PCB AS	97LA204300	1	DCC-01A	
-1	PCB SENSOR	97L6502200	1	PHENOL 1.2T	
-2	WAFER, 2P	97L6201200	1	ELCO 8203 3028	
-3	SENSOR S/W	97L0S00010	1	SG-23FI	
-4	CONNECTOR SENSOR	97L6200800	1	FFC 5P	
-5	WAPER 5P ANGLE(FFC)	97L6201300	1	FFC CON 5P ANGLE	
3	MOTER ROULETTE AS	97LA204200	1	DCC-01A	
-1	MOTER ROULETTE	97L8101200	1	FF-130SH-14230	
-2	GEAR WORM	97L2704300	1	POM	
-3	CONNECTOR MOTER R	97L6200600	1	CONNECTOR AS 2P	
4	GEAR WHEEL WORM	97L2704400	1	KP-3355	
5	ROULETTE DISK	97L0902800	1	ABS(HB)	
6	SCREW WASHER A	97L3102300	1	TAPTITE 3X8(ø10)	
7	SCREW TAPTITE	7174260611	1	TAPTITE 2.6X6	
8	BRKT.WORM GUIDE		1	TAPTITE 2.6X6	



No.	PART NAME	PART No.	QUAN.	MATERIAL	REMARK
1	BASE DRIVE	97L0603100	1	ABS+GF15%	
2	DRIVE UNIT		1		
3	RUBBER DANPER	97L4201500	4	BYTHIL 25	
4	SCREW SPECIAL	97L3101100	4	SOLDER SCREW	

DISASSEMBLY OF THE CD PLAYER BLOCK

2. 9CD3006100[CMS-CR3] - SAMSUNG



DISASSEMBLY OF THE CD PLAYER BLOCK

3. 9CD3006600[CMS-FR3]/9CD6007100[CMS-FR3B] - SAMSUNG